

Federation of Earth Science Information Partners Partnership Application

Please complete all sections to the fullest extent possible and forward completed application to: Carol Meyer, carol.meyer@earthsciencefoundation.org. If you have any questions, please contact her at 877.870.3747.

I. CONTACT INFORMATION

A. Primary Contact/Principal Investigator

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B. Designated Assembly Representative (could be same as above)

Name: Same as the above
Address:
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C. Other Contacts

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II. ABOUT YOUR ORGANIZATION

A. ORGANIZATION/DIVISION/PROJECT NAME:

Information Technology and Systems Center (ITSC)

B. OVERVIEW OF YOUR PRIMARY ACTIVITIES in regards to the Earth Sciences Community (200 words or less)

The ITSC performs research and development in the areas of distributed information systems, next generation internet, data mining and knowledge discovery, information system interoperability, image processing and data security. The ITSC has worked with researchers at Marshall Space Flight Center, other NASA centers, state and federal agencies and industry for over 30 years. We provide stewardship of Earth science data and information for numerous missions including NASA's Earth science missions and field campaigns. ITSC researchers team with scientists to develop new technologies and applications that promote the broad use of Earth science data.

C. Please list and briefly describe the primary product(s) or service(s) that your organization provides (will provide) to the Earth Sciences community.

The ITSC manages the Global Hydrology Resource Center (GHRC), one of NASA's Earth Science Data Centers and a type I ESIP. The ITSC, through the LANCE project is providing AMSR-E data products within three hours of their collection. Through the AMSR-E Science Investigator led Processing (AMSR-E SIPS) system, the ITSC and NSIDC process and distribute precipitation, oceanic water vapor, cloud water, near-surface wind speed, and sea surface temperature data. Through the DISCOVER project (a Type II ESIP) the ITSC provides highly accurate, long-term ocean and climate products suitable for the most demanding Earth research applications.

The ITSC has developed numerous applications and technologies that promote the use of Earth science data. These include the Earth Science Markup Language (ESML), subsetting, data mining, data systems and visualization, web services and many others.

The ITSC has been active in the ESIP Federation since its inception. The ITSC designed, developed and maintained the ESIP Federation website for a number of years. ITSC personnel have served on almost all of the committees, working groups and clusters at one time or another. However, this has been done through ITSC projects that are also ESIPs – GHRC, PM-ESIP, DISCOVER. This application, if approved, will enable the ITSC to become an ESIP as an organization independent of our projects.

D. Please give a main website address for the proposed Partnership:

Web Address: <http://www.itsc.uah.edu/>

III. HOW YOUR ORGANIZATION WILL BENEFIT FROM/CONTRIBUTE TO THE EARTH SCIENCE INFORMATION PARTNERS (ESIP) FEDERATION

- A. Describe current or anticipated users of your products and services and how you think the Federation can help you better serve this population. (200 words or less)

ITSC researchers are already active in the ESIP Federation as described above. As a result of our participation through the GHRC, PM-ESIP, and DISCOVER projects we work with other ESIPs to develop technologies, standards, and processes that promote the stewardship of earth science data and its use by the global community.

- B. Describe any Earth science technologies that you have developed and are willing to bring to the Federation's efforts to provide best-practices. (200 words or less)

These are described in part II.C above

- C. Describe how your proposed membership would contribute to the efforts and the mission of one or more standing committees, working groups and/or clusters. See Page 3 for descriptions of the different activities of the various standing committees, working groups, and clusters. (200 words or less)

The ITSC will contribute through participation in committees and working groups. Currently we have members on the *Information Technology and Interoperability* and *Partnership* committees. We have also served on the *Community Engagement, Products and Services* and *Constitution and Bylaws* committees in the past. The ITSC will continue to be an active player in the ESIP Federation.

- D. Describe your own use of Earth science information and data and how you would see this use enhanced by your partnership in the Federation. (200 words or less)

The ITSC produces a number of data products through the projects described above. We also use this data in many other research areas including air quality and coastal studies. Earth science data is also used in the development of new applications and as a driver for developing information management products and procedures.

IV. YOUR CHOICE OF MEMBERSHIP TYPE. PLEASE PICK ONE.

ESIP-I (primarily a data center/archive) ☐

ESIP-II (primarily a research center) ☒

ESIP-III (primarily applications and education) ☐

ESIP-IV (primarily a sponsoring member) ☐

V. Any other comments about your proposed membership and its relation to the Federation that you wish to provide.

Thank you for your application for partnership in the ESIP Federation.